



0590/0400
0326

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/091,166
Source: OIPF
Date Processed by STIC: 3/20/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
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Revised 01/29/2002



OIPE

**Does Not Comply
Corrected Diskette Needed**

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/091,166

DATE: 03/20/2002
TIME: 16:27:03

*Error on p. 3
throughout*

Input Set : A:\97-44D1.txt
Output Set: N:\CRF3\03202002\J091166.raw

```

5 <110> APPLICANT: Adler, David A.
6   Holloway, James L.
7   Baidur, Nand
8   Beigel-Orme, Stephanie
9   Sheppard, Paul O.
11 <120> TITLE OF INVENTION: NOVEL BETA-DEFENSINS
14 <130> FILE REFERENCE: 97-44C1
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/091,166
C--> 16 <141> CURRENT FILING DATE: 2002-03-05
16 <150> PRIOR APPLICATION NUMBER: 60/058,335
17 <151> PRIOR FILING DATE: 1997-10-09
19 <150> PRIOR APPLICATION NUMBER: 60/064,294
20 <151> PRIOR FILING DATE: 1997-11-05
22 <150> PRIOR APPLICATION NUMBER: 09/150,786
23 <151> PRIOR FILING DATE: 1998-09-10
25 <160> NUMBER OF SEQ ID NOS: 72
27 <170> SOFTWARE: FastSEQ for Windows Version 3.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 219
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
34 <220> FEATURE:
35 <221> NAME/KEY: CDS
36 <222> LOCATION: (1)...(195)
38 <400> SEQUENCE: 1
39   atg agg atc cat tat ctt ctg ttt gct ttg ctc ttc ctg ttt ttg gtg
40   Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
W--> 41   1           5           10          15
43   cct gtt cca ggt cat gga gga atc ata aac aca tta cag aaa tat tat
44   Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
W--> 45   20          25          30
47   tgc aga gtc aga ggc ggc cgg tgt gct gtg ctc agc tgc ctt cca aag
48   Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
W--> 49   35          40          45
51   gag gaa cag atc ggc aag tgc tcg acg cgt ggc cga aaa tgc tgc cga
52   Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
W--> 53   50          55          60
54   aga aagaaataaa aaccctgaaa catg
55   Arg
56   65
59 <210> SEQ ID NO: 2
60 <211> LENGTH: 65
61 <212> TYPE: PRT

```

48

96

144

192

219

*amino acid
numbering
is misaligned
FYI: pls use
space bar, instead
of tab key*

RAW SEQUENCE LISTING

DATE: 03/20/2002

PATENT APPLICATION: US/10/091,166

TIME: 16:27:03

Input Set : A:\97-44D1.txt

Output Set: N:\CRF3\03202002\J091166.raw

```

62 <213> ORGANISM: Homo sapiens
64 <400> SEQUENCE: 2
65 Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
66 1 5 10 15
67 Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
68 20 25 30
69 Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
70 35 40 45
71 Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
72 50 55 60
73 Arg
74 65
76 <210> SEQ ID NO: 3
77 <211> LENGTH: 31
78 <212> TYPE: PRT
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Cysteine motif of the Beta-defensin family
84 <221> NAME/KEY: VARIANT
85 <222> LOCATION: (2)...(7)
86 <223> OTHER INFORMATION: Xaa2 is independently any amino acid residue,
87 preferably not cysteine.
88 Xaa3 is independently any amino acid residue,
89 preferably not cysteine.
W--> 90 Xaa4 is independently any amino acid residue,
W--> 91 preferably not cysteine.
W--> 92 Xaa5 is independently any amino acid residue,
W--> 93 preferably not cysteine.
W--> 94 Xaa6 is independently any amino acid residue,
W--> 95 preferably not cysteine.
W--> 96 Xaa7 is independently any amino acid residue,
W--> 97 preferably not cysteine.
99 <221> NAME/KEY: VARIANT
100 <222> LOCATION: (9)...(12)
101 <223> OTHER INFORMATION: Xaa9 is independently any amino acid residue,
102 preferably not cysteine.
103 Xaa10 is independently any amino acid residue,
104 preferably not cysteine.
W--> 105 Xaa11 is independently any amino acid residue,
W--> 106 preferably not cysteine.
W--> 107 Xaa12 is independently any amino acid residue,
W--> 108 preferably not cysteine.
110 <221> NAME/KEY: VARIANT
111 <222> LOCATION: (14)...(20)
112 <223> OTHER INFORMATION: Xaa14 is independently any amino acid residue,
113 preferably not cysteine.
114 Xaa15 is independently any amino acid residue,
115 preferably not cysteine.
W--> 116 Xaa16 is independently any amino acid residue, )

```

Allowed no. of
lines exceeded

Some

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/091,166

DATE: 03/20/2002

TIME: 16:27:03

Input Set : A:\97-44D1.txt

Output Set: N:\CRF3\03202002\J091166.raw

```

W--> 117      preferably not cysteine.
W--> 118      Xaa17 is independently any amino acid residue,
W--> 119      preferably not cysteine.
W--> 120      Xaa18 is independently any amino acid residue,
W--> 121      preferably not cysteine.
W--> 122      Xaa19 is independently any amino acid residue,
W--> 123      preferably not cysteine.
W--> 124      Xaa20 is independently any amino acid residue,
W--> 125      preferably not cysteine.
127 <221> NAME/KEY: VARIANT
128 <222> LOCATION: (22)...(22)
129 <223> OTHER INFORMATION: Xaa is any amino acid residue, preferably not
130      cysteine
132 <221> NAME/KEY: VARIANT
133 <222> LOCATION: (24)...(29)
134 <223> OTHER INFORMATION: Xaa24 is independently any amino acid residue,
135      preferably not cysteine.
136      Xaa25 is independently any amino acid residue,
137      preferably not cysteine.
W--> 138      Xaa26 is independently any amino acid residue,
W--> 139      preferably not cysteine.
W--> 140      Xaa27 is independently any amino acid residue,
W--> 141      preferably not cysteine.
W--> 142      Xaa28 is independently any amino acid residue,
W--> 143      preferably not cysteine.
W--> 144      Xaa29 is independently any amino acid residue,
W--> 145      preferably not cysteine.
147 <400> SEQUENCE: 3
W--> 148      Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa
149      1          5          10          15
W--> 150      Xaa Xaa Xaa Xaa Gly Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Cys
151      20          25          30
153 <210> SEQ ID NO: 4
154 <211> LENGTH: 213
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Degenerate nucleotide encoding the polypeptide of
160      SEQ ID NO:2
162 <221> NAME/KEY: variation
163 <222> LOCATION: (1)...(213)
164 <223> OTHER INFORMATION: Nucleotides 12, 15, 21, 24, 27, 33, 39, 42, 45,
165      48, 51, 54, 60, 63, 75, 78, 98, 99, 100, 106, 109,
166      112, 115, 118, 121, 127, 130, 133, 136, 142, 145,
167      163, 172, 175, 178, 181, 184, 196, and 199 are
W--> 168      each independently A, T, G or C.
170 <400> SEQUENCE: 4
W--> 171      athcaytayy tnyntttygc nyntyntty ytnttyytnng tncngtncc nggncayggg      60
W--> 172      ggnathatha ayacnytnca raarttrnnn tgyngngtnm gngngngnmg ntgygcngtn      120

```

Some

Some

88, 89, 90, 96, 99, etc.

Numbering is off by 10 count

RAW SEQUENCE LISTING

DATE: 03/20/2002

PATENT APPLICATION: US/10/091,166

TIME: 16:27:03

Input Set : A:\97-44D1.txt

Output Set: N:\CRF3\03202002\J091166.raw

```

W--> 173 ytnwsntgyy tncnaarga rgarcarath ggnaartgyw snacnmnggg nmgnartgy 180
W--> 174 tgygmngmna araartrraa rccntrraay atg 213
176 <210> SEQ ID NO: 5
177 <211> LENGTH: 20
178 <212> TYPE: DNA
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Oligonucleotide ZC14741
184 <400> SEQUENCE: 5
185 gagcacttgc cgatctgttc 20
187 <210> SEQ ID NO: 6
188 <211> LENGTH: 20
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Oligonucleotide ZC14740
195 <400> SEQUENCE: 6
196 ccaggtcatg gaggaatcat 20
198 <210> SEQ ID NO: 7
199 <211> LENGTH: 18
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Oligonucleotide ZC14780
206 <400> SEQUENCE: 7
207 ggaggaatca taaacaca 18
209 <210> SEQ ID NO: 8
210 <211> LENGTH: 18
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Oligonucleotide ZC14776
217 <400> SEQUENCE: 8
218 gccgatctgt tcttcctt 18
220 <210> SEQ ID NO: 9
221 <211> LENGTH: 438
222 <212> TYPE: DNA
223 <213> ORGANISM: Homo sapiens
225 <220> FEATURE:
226 <221> NAME/KEY: CDS
227 <222> LOCATION: (220)...(420)
229 <400> SEQUENCE: 9
230 acaaatccat agggagctct gccttaccat tgggttccta attaactgag tgagtgggtg 60
231 tgttctgcat ggtgagaggc attggaatga tgcacagaa aacatgtcat aatgtcatca 120
232 ctgtaatatg acaagaattg cagctgtggc tggaaacctt ataaagtgac caagcacacc 180
233 ttttcatcca gtctcagcgt ggggtgaagc ctacgagct atg agg atc cat tat 234
234 Met Arg Ile His Tyr
235 1 5
237 ctt ctg ttt gct ttg ctc ttc ctg ttt ttg gtg cct gtt cca ggt cat 282

```

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Input Set : A:\97-44D1.txt

Output Set: N:\CRF3\03202002\J091166.raw

```

238 Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val Pro Val Pro Gly His
239          10          15          20
241 gga gga atc ata aac aca tta cag aaa tat tat tgc aga gtc aga ggc      330
242 Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr Cys Arg Val Arg Gly
243          25          30          35
245 ggc cgg tgt gct gtg ctc agc tgc ctt cca aag gag gaa cag atc ggc      378
246 Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys Glu Glu Gln Ile Gly
247          40          45          50
249 aag tgc tcg acg cgt ggc cga aaa tgc tgc cga aga aag aaa      420
250 Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg Arg Lys Lys
251          55          60          65
253 taaaaaccct gaaacatg      438
255 <210> SEQ ID NO: 10
256 <211> LENGTH: 67
257 <212> TYPE: PRT
258 <213> ORGANISM: Homo sapiens
260 <400> SEQUENCE: 10
261 Met Arg Ile His Tyr Leu Leu Phe Ala Leu Leu Phe Leu Phe Leu Val
262   1          5          10          15
263 Pro Val Pro Gly His Gly Gly Ile Ile Asn Thr Leu Gln Lys Tyr Tyr
264          20          25          30
265 Cys Arg Val Arg Gly Gly Arg Cys Ala Val Leu Ser Cys Leu Pro Lys
266          35          40          45
267 Glu Glu Gln Ile Gly Lys Cys Ser Thr Arg Gly Arg Lys Cys Cys Arg
268          50          55          60
269 Arg Lys Lys
270 65
272 <210> SEQ ID NO: 11
273 <211> LENGTH: 219
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: Degenerate nucleotide sequence encoding the
279 polypeptide of SEQ ID NO:10
281 <221> NAME/KEY: variation
282 <222> LOCATION: (1)...(219)
283 <223> OTHER INFORMATION: Nucleotides 6, 18, 21, 27, 30, 33, 39, 45, 48, 51,
284 54, 57, 60, 66, 69, 81, 84, 94, 95, 96, 102, 105,
285 108, 111, 114, 117, 123, 126, 129, 132, 138, 141,
286 159, 168, 171, 174, 177, 180, 192, 195, and 210
W--> 287 are each independently A, T, C, or G.
289 <400> SEQUENCE: 11
W--> 290 atgmgcnathc aytayytnyt nttygcnytn ytnttyytn tyytngtncc ngtnccnggn      60
W--> 291 cayggnggna thathaayac nytnccaraar trrnnntgym gngtnmgngg nggnmgntgy      120
W--> 292 gcngtnytnw sntggytncc naargargar carathggna artgywsnac nmngnggmgn      180
W--> 293 aartgytgym gnmgnaaraa rtrraarccn trraayatg      219
295 <210> SEQ ID NO: 12
296 <211> LENGTH: 21
297 <212> TYPE: DNA

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/091,166

DATE: 03/20/2002

TIME: 16:27:04

Input Set : A:\97-44D1.txt

Output Set: N:\CRF3\03202002\J091166.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:41 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:45 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:49 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:53 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:90 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:91 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:92 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:93 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:94 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:95 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:96 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:97 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:105 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:106 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:107 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:108 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:116 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:117 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:118 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:119 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:120 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:121 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:122 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:123 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:124 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:125 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:138 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:139 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:140 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:141 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:142 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:143 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:144 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:145 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:168 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:287 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11

VERIFICATION SUMMARY

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Input Set : A:\97-44D1.txt

Output Set: N:\CRF3\03202002\J091166.raw

L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:759 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:859 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:939 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:1059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:1099 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:1159 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:1179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:1197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:1217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:1237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:1257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64
L:1277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65
L:1297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66
L:1317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67
L:1337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:1355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69
L:1373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70
L:1391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71